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NaPdf1

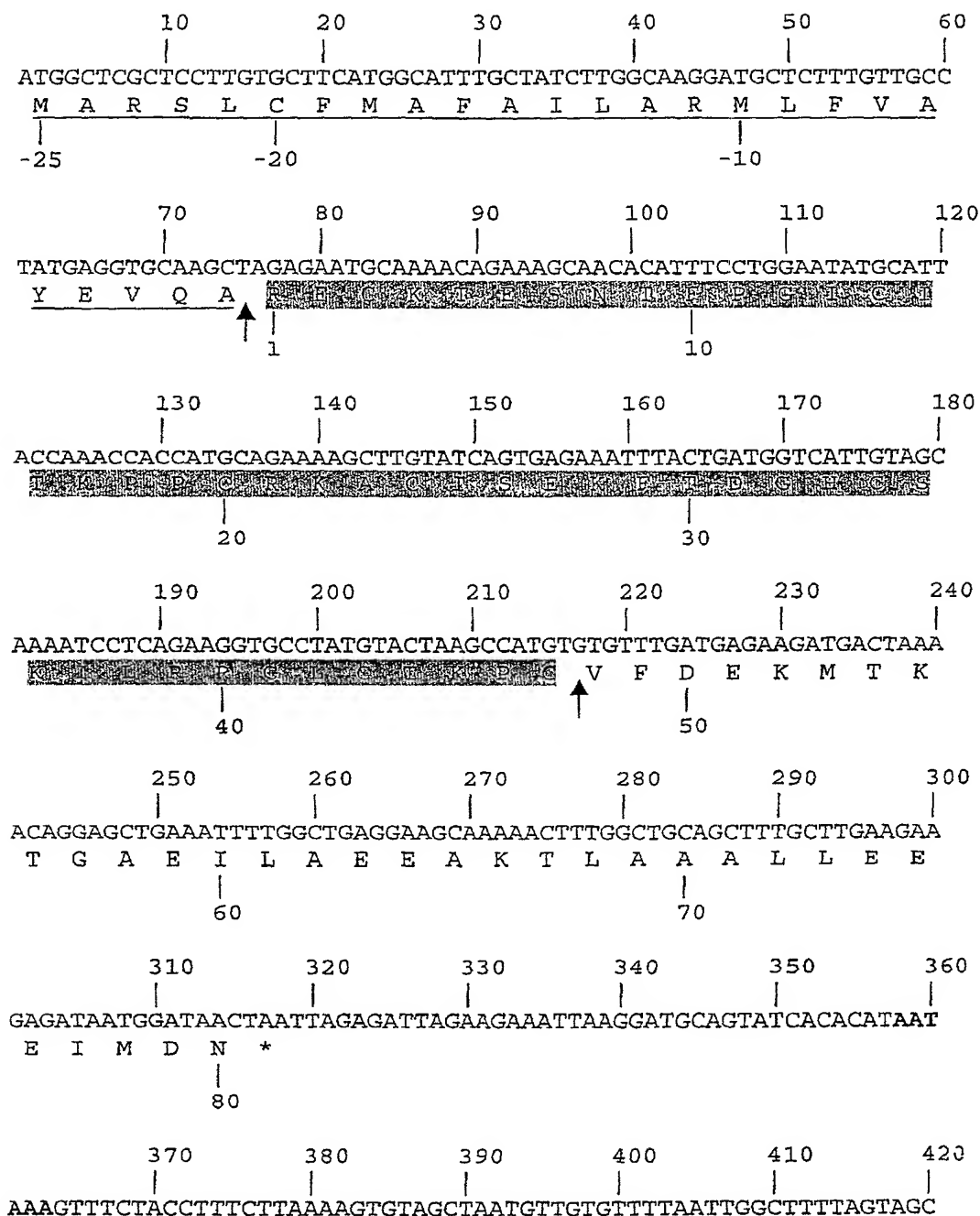


Figure 1

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```
      430      440      450      460      470      480
      |        |        |        |        |        |
CTTTTATTACACTTTTAAATAAGTGTGGCACTTCAATCCTTTGTGCAATCTTGCACTAAGT

      490      500      510      520      530      540
      |        |        |        |        |        |
TTATTTGTGTACTTTTAATGAAATGACCTTCTATGGTCTTTGGTTAAAAAAAAAAAAAA

541
|
A
```

Figure 1 continued

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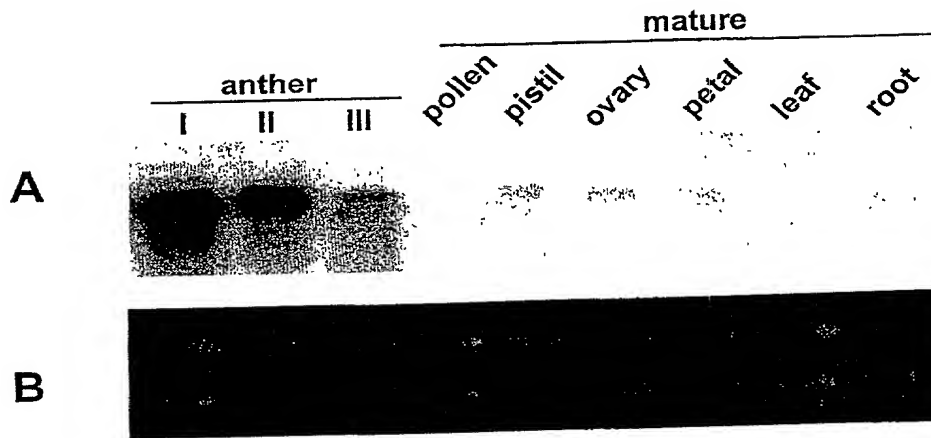
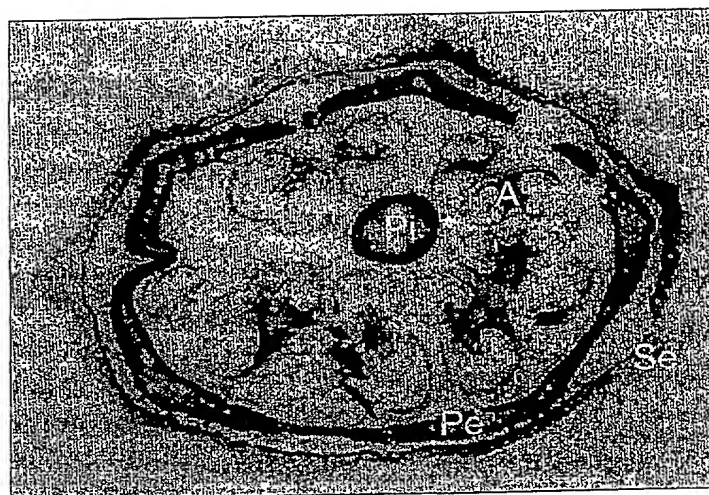


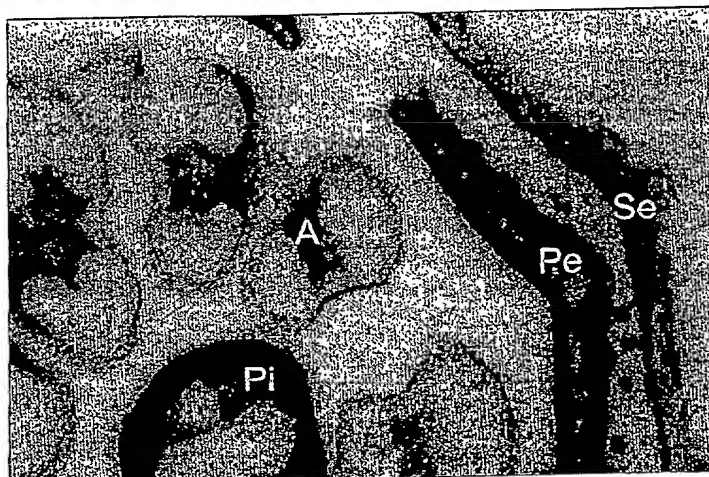
Figure 2

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A



B



C

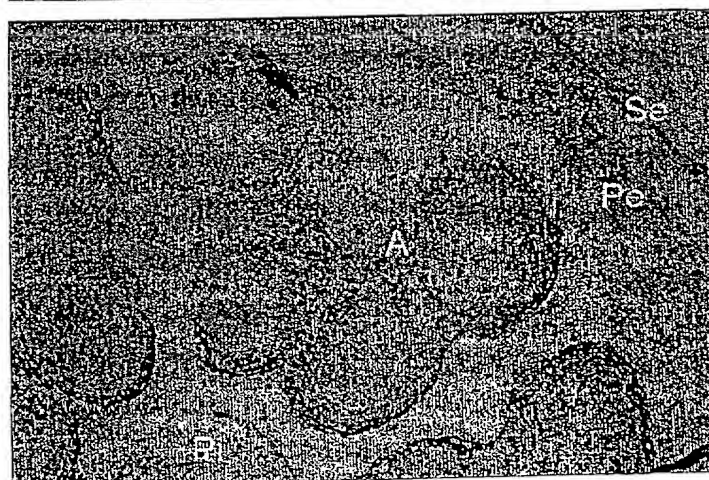
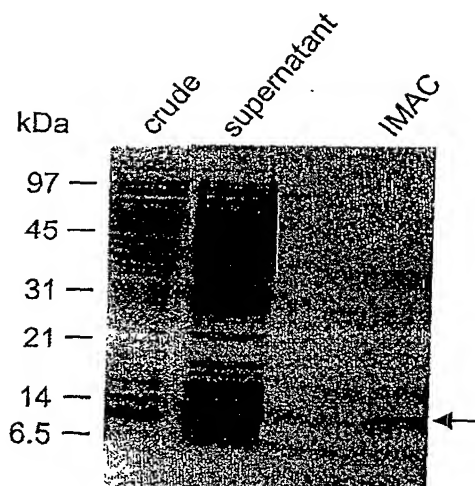


Figure 3

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A



B

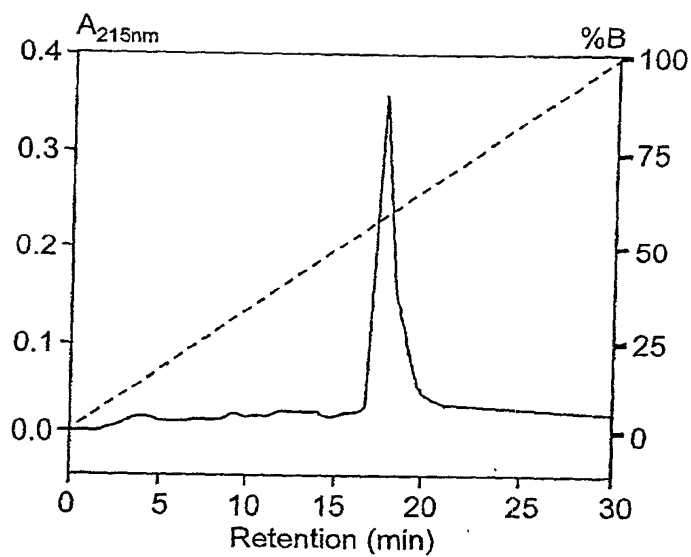


Figure 4

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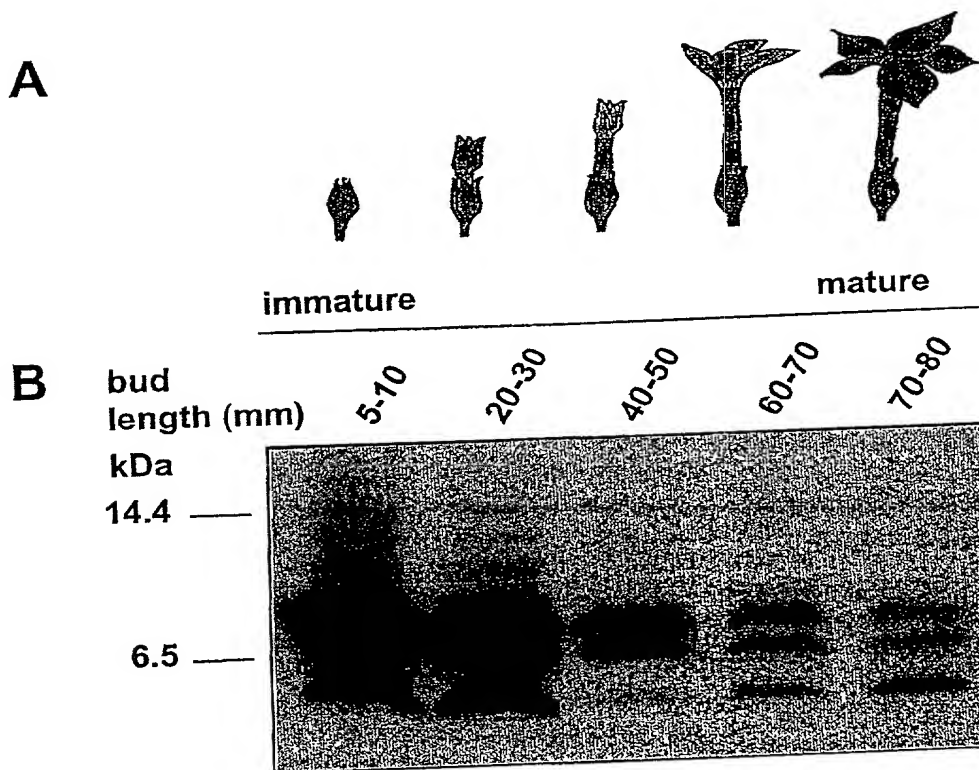
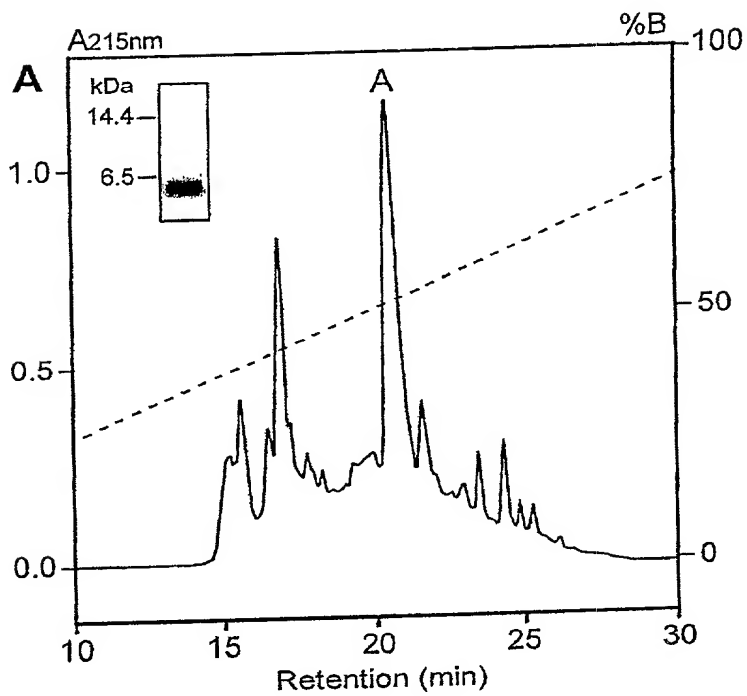


Figure 5

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	Peak A
Protein	NaPdf1
% Acetonitrile	30.7
N-terminal sequence	RExKTESN
Predicted mass (Da)	5296.0
Observed mass (Da)	5296.7

Figure 6

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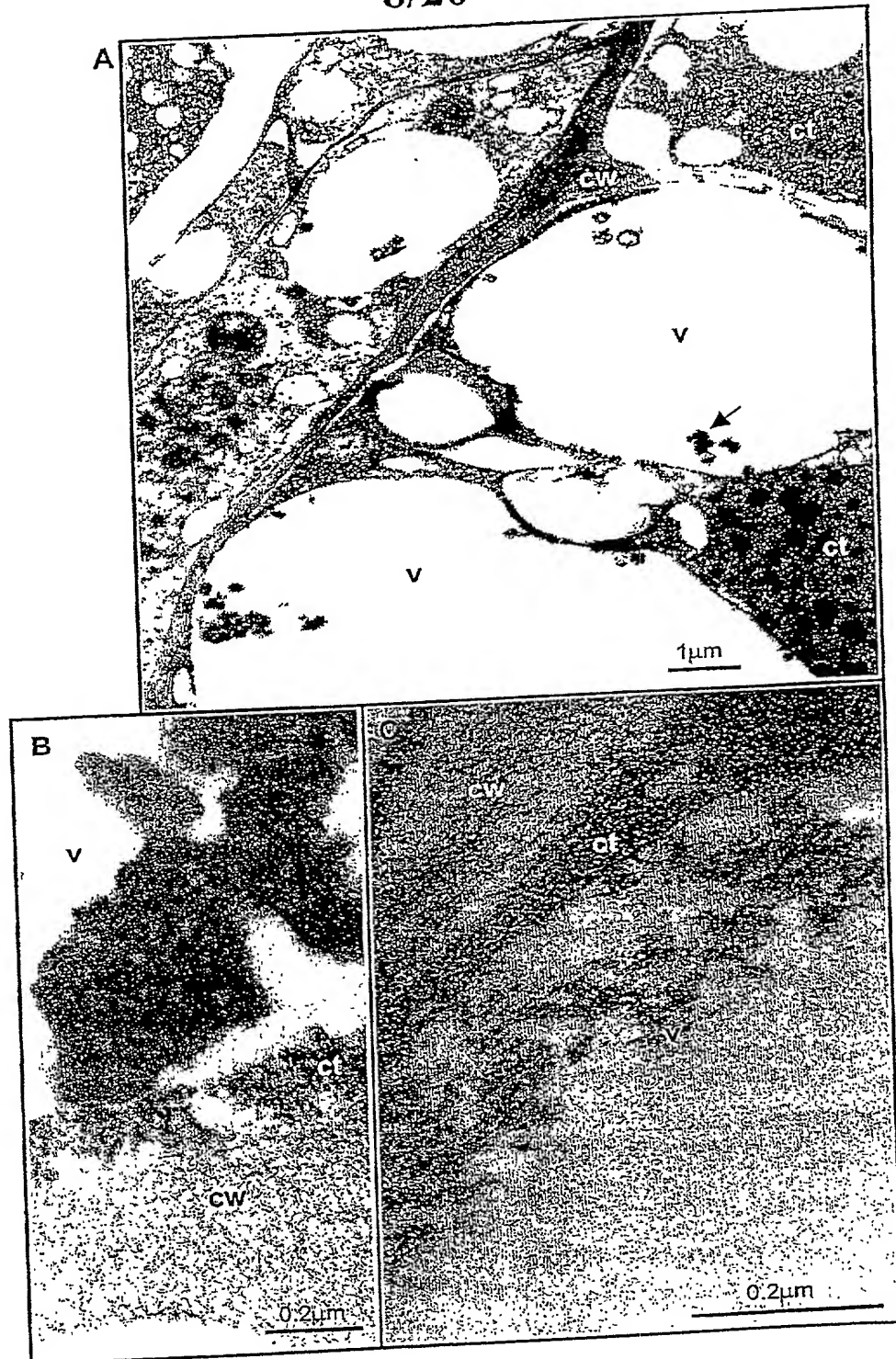


Figure 7

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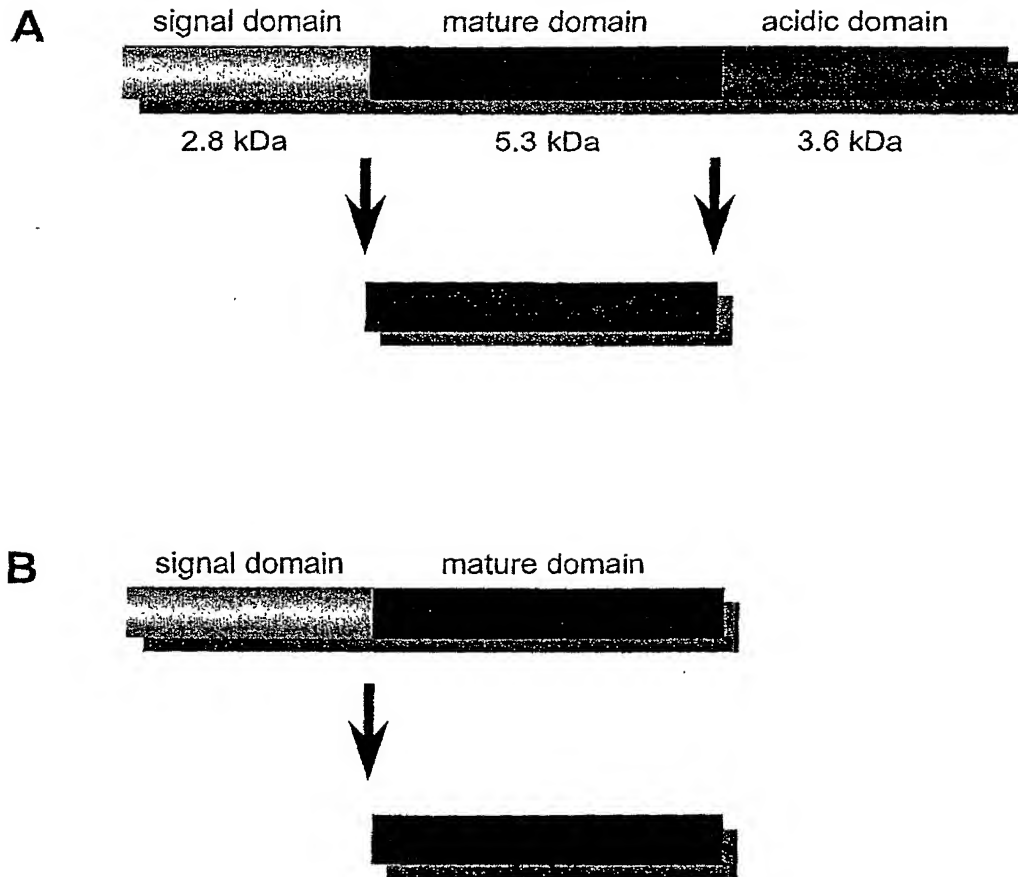


Figure 8

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NaPdf1	(<400>18)	MARSLCFMAFAILAMMLFVAYEV-----QA-RECKTESNTFPGICITKPP
FST	(<400>20)	MARSLCFMAFAILAMMLFVAYEV-----QA-RECKTESNTFPGICITKPP
TTP3	(<400>21)	MARSIFFMAFLVLAMMLFVITYEV-----EAQQICKAPSQTFFGLCFMDSS
NTS13	(<400>22)	MANSMRFFATVLLIALLVLTATEMGPMITIAEA-RTCESQSHRFKGPCSRDSN
PPT	(<400>23)	MGRSIRLFATFFLIAMFLSTEMGPMTSAEA-RTCESQSHRFHGTCVRESN
ATPIIIa	(<400>24)	MKLSMRLISAVLIMFMIFVATGMGPVT-VEA-RTCESQSHRFKGTCSASN

NaPdf1	CRKACISEKFTDGHCSKILRRCLCTKPCVFDEKMTKTGAELAEAEAKTLAAALLLEEIMDN
FST	CRKACISEKFTDGHCSKLLRRCLCTKPCVFDEKMIKTGAETLVEEAKTLAAALLLEEIMDN
TTP3	CRKYCIKEKFTGGHCSKLQRKCLCTKPCVFDKISSEVKA-TLGEEAKTLSEVVLEEEIMME
NTS13	CATVCLTEGFSGGRCPWIPPRCFCTSPC-----
PPT	CASVCQTEGFIGGNCRAFRRRCFCTRNC-----
ATPIIIa	CANVCHNEGFGVGGNCRGFRRCFCTRHC-----

Figure 9

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<i>Nicotiana alata</i>	Napdf1	-REC-KTESNTPF-GICITKPPCKACIS-EKFTDGH-CSK--ILRRCLCTKPC-	(<400>8)
<i>Nicotiana tabacum</i>	FST	-REC-KTESNTPF-GICITKPPCKACIS-EKFTDGH-CSK--LLRRCLCTKPC-	(<400>25)
<i>Lycopersicon esculentum</i>	TPP3	-QIC-KAPSQTFP-GLCFWSSCRKYCIK-EKFTGGH-CSK--LQRKGLCTKPC-	(<400>26)
<i>Solanum tuberosum</i>	P322	-RHC-ESLSHRFK-GPCTFDSNCASVCEI-ERFSGGN-CHG-F-RRRCFTKPC-	(<400>27)
<i>Petunia inflata</i>	PPT	-RTC-ESQSHRFH-GTCVRESNCASVCQT-EGFIGGN-CRA-F-RRRCFTTRNC-	(<400>28)
<i>Glycine max</i>	SE60	-RVC-ESQSHGFH-GLCNRDHNALVCNE-G-FSGGRCKG-F-RRRCFTTRIC-	(<400>29)
<i>Hordeum vulgare</i>	Y1-H	-RIC-RRRSAGFK-GPCVSNKNCAQVCQE-G-WGGGNCDDG--PLRRCKCMRR-	(<400>30)
<i>Sinapis alba</i>	M2A	PQKLC-QRPSGTWS-GVCGNNNACRNQCINLEKARHGS-CNYVFFPAHKCICYFPC-	(<400>31)
<i>Solanum tuberosum</i>	PTH-St1	-RNC-ESLSHRFK-GPCTFDSNC-----	(<400>32)
<i>Raphanus sativus</i>	Rs-AFP1	PQKLC-ERPSGTWS-GVCGNNNACRNQCINLEKARHGS-CNYVFFPAHKCICYFPC-	(<400>33)
<i>Raphanus sativus</i>	Rs-AFP2	PQKLC-QRPSGTWS-GVCGNNNACRNQCINLEKARHGS-CNYVFFPAHKCICYFPC-	(<400>34)
<i>Sinapis alba</i>	M1	PQKLC-ERPSGTWS-GVCGNNNACRNQCINLEKARHGS-CNYVFFPAHKCICYFPC-	(<400>35)
<i>Sinapis alba</i>	M2B	PQKLC-ARPSGTWSGNCRRNNNACRNFCIKLEKSRHGS-CNIPFPSNKICICYFPC-	(<400>36)
<i>Triticum turgidum</i>	Y1-P	-KIC-RRRSAGFK-GPCMSNKNCAQVCQE-G-WGGGNCDDG--PFRRCKCIRQC-	(<400>37)
<i>Triticum turgidum</i>	Y2-P	-KVC-RORSAGFK-GPCVSDKNCAQVCQE-G-WGGGNCDDG--PFRRCKCIRQC-	(<400>38)
<i>Vigna unguiculata</i>	10kDa	-KTC-ENLVDTYR-GPCTTGSCDDHCNKEHLLSGR-CR---DDVRCWCSTRNC-	(<400>39)
<i>Sorghum bicolor</i>	Sia2	-RVC-MGKSAGFK-GLCMRDQNCQVCQE-G-WGGGNCDDG--VMRQCKCIRQCW	(<400>40)
<i>Sorghum bicolor</i>	Sia3	-RVC-RRRSAGFK-GLCMSDHNCAQVCQE-G-WGGGNCDDG--VIRQCKCIRQCW	(<400>41)
<i>Dalia merckii</i>	Dm-AMP2	-EVC-EKASKTWS-GNCGNTGHC-----	(<400>42)
<i>Sorghum bicolor</i>	Sia1	-RVC-MKGSQHHS-FPCISDRLCNCEVKKEGGWTAGYCH---LRYCRQKAC-	(<400>43)
<i>Pisum sativum</i>	P1230	-NTC-ENLAGSYK-GVCF--GGCDRHCHTQEGAI SGR-CR---DDFRCWCTKNC-	(<400>44)
<i>Aesculus hippocastanum</i>	Ah-AMP1	--LCNERPSQTWS-GNCGNTAHCDKQCQDWEKASHGA-CHKRENHWKFCYFNC-	(<400>45)
<i>Heuchera sanguinea</i>	Hs-AFP1	-KLC-DVPSGTWS-GHCGSSSKCSQCKDREHFAYGGACHYQFSPVKCFCKRQC-	(<400>46)
<i>Dalia merckii</i>	Dm-AMP1	-ELC-EKASKTWS-GNCGNTGHCNDQCKSWEGAHA-CHVRNGKHMCFYFNC-	(<400>47)
<i>Pisum sativum</i>	P139	-NTC-EHLADTYR-GVCFNASCDDHCNKAHLI SGT-CH---DWKCFCTQNC-	(<400>48)
<i>Clitoria ternatea</i>	Ct-AMP1	-NLC-ERASLTWT-GNCGNTGHCdTQCRNWESAKHGA-CHKRGN-WKCFYFNC-	(<400>49)

Figure 10

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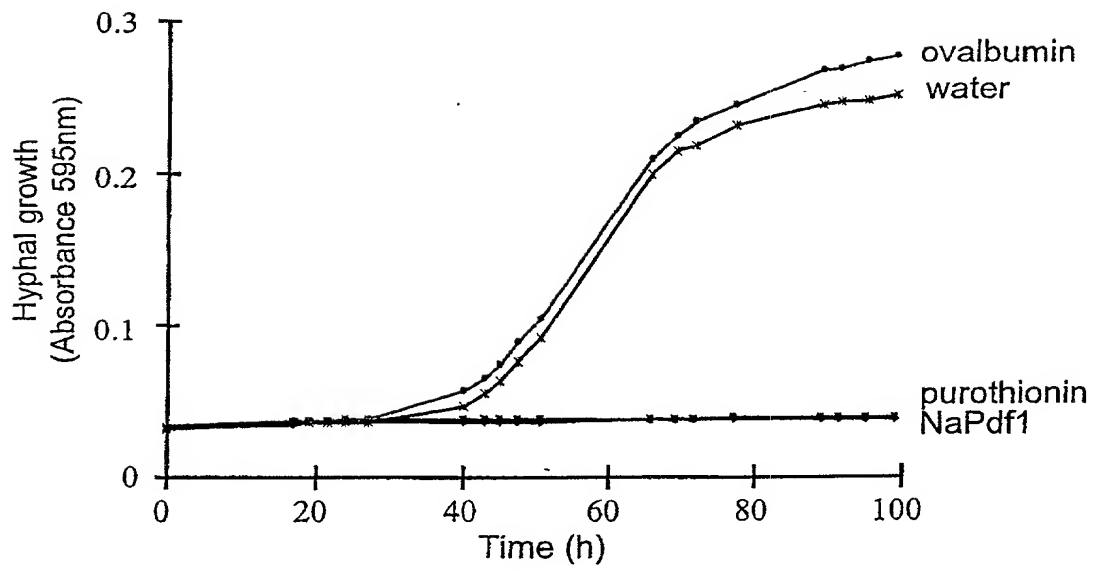


Figure 11

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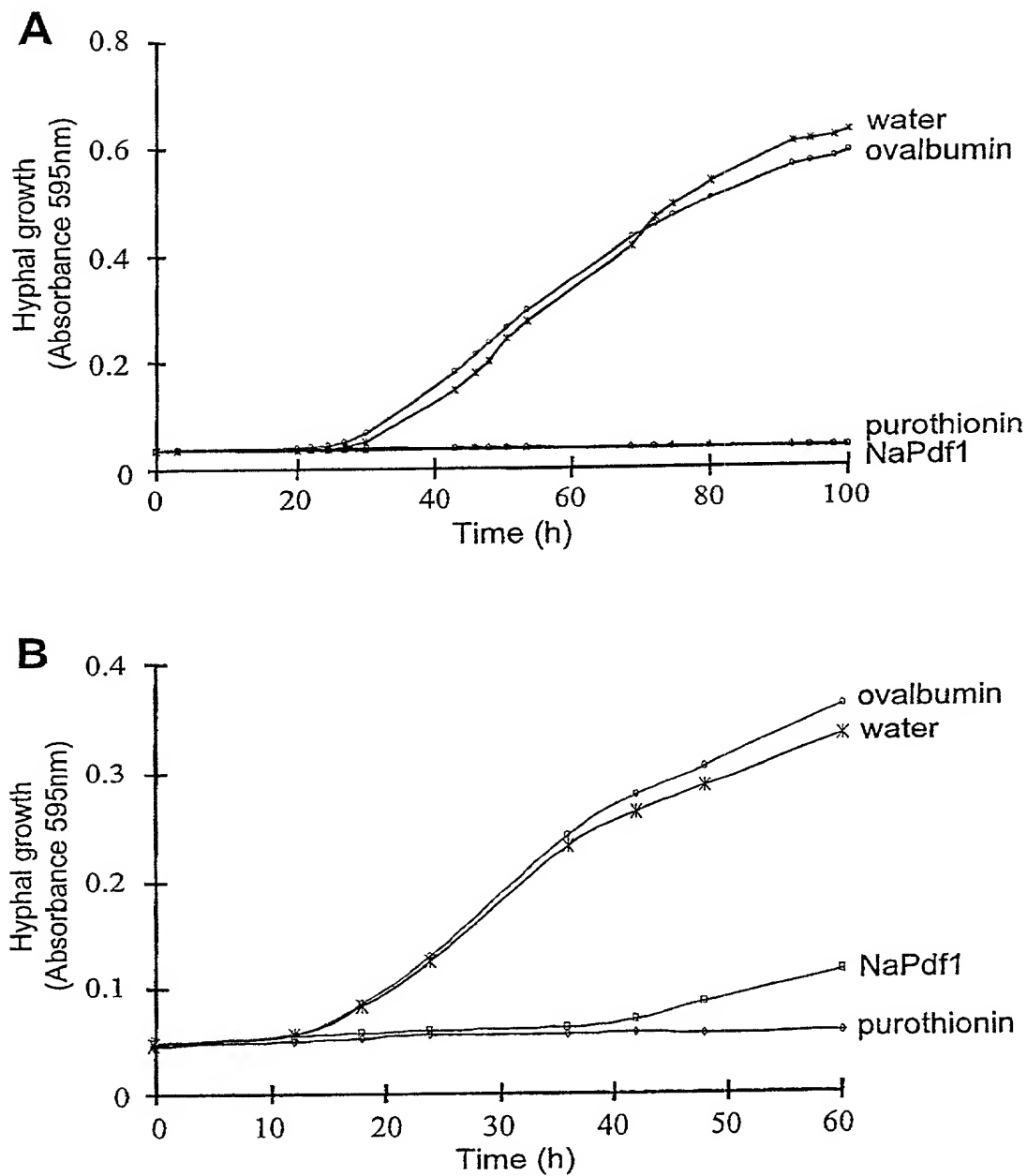


Figure 12

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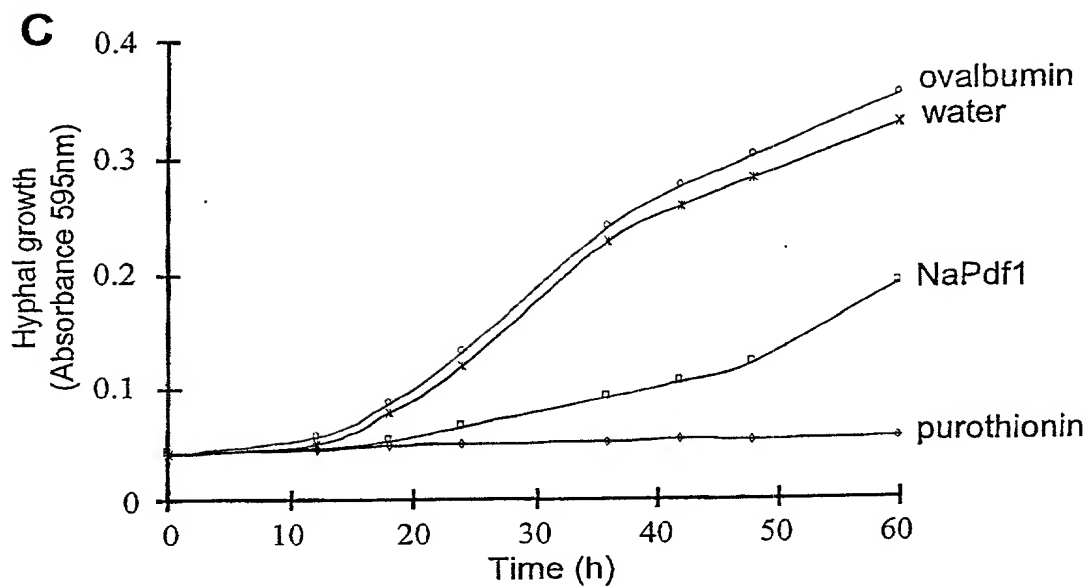


Figure 12 continued

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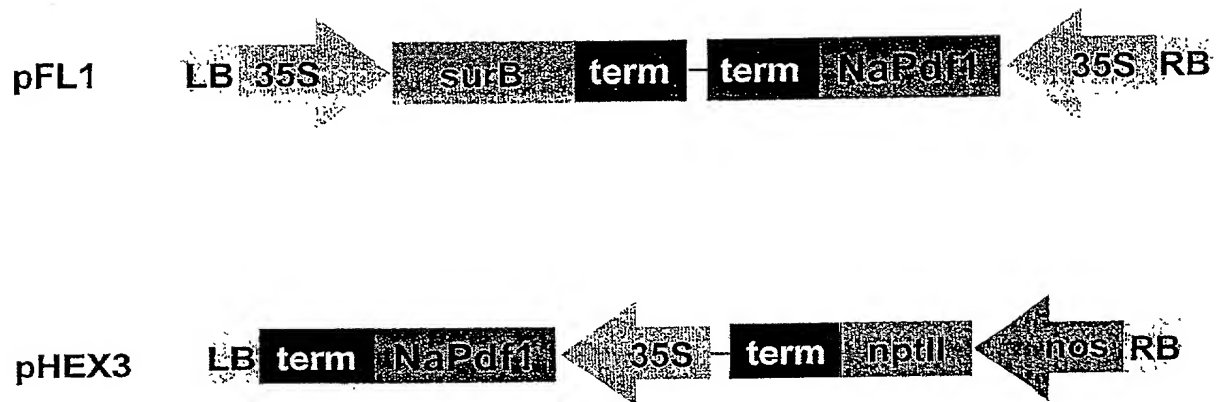


Figure 13

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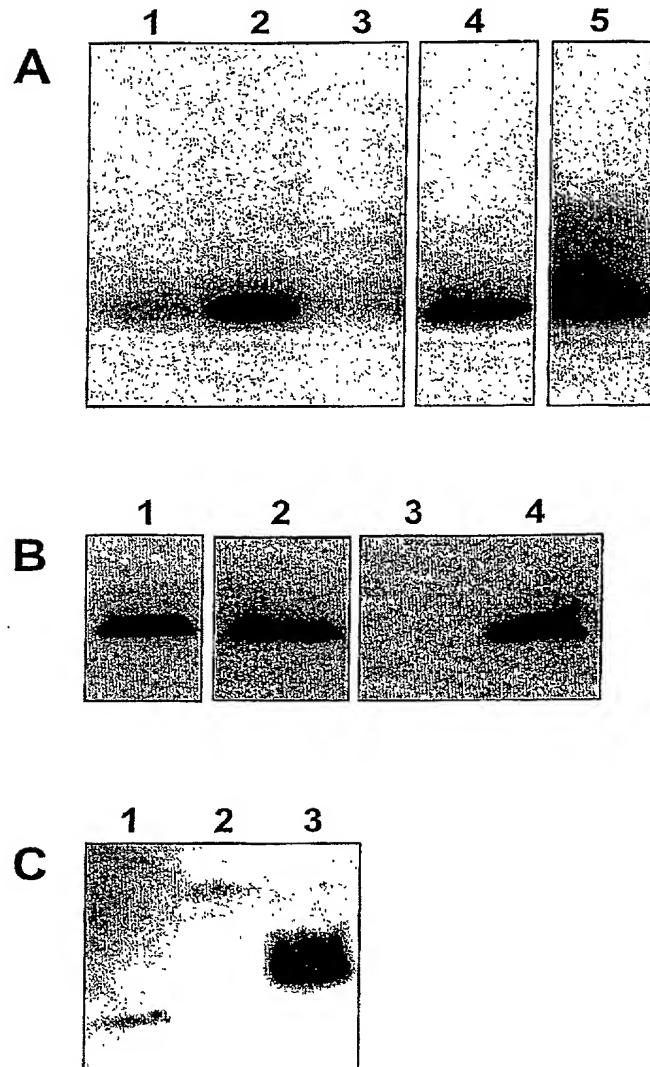


Figure 14

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H. punctigera bioassay with transgenic tobacco

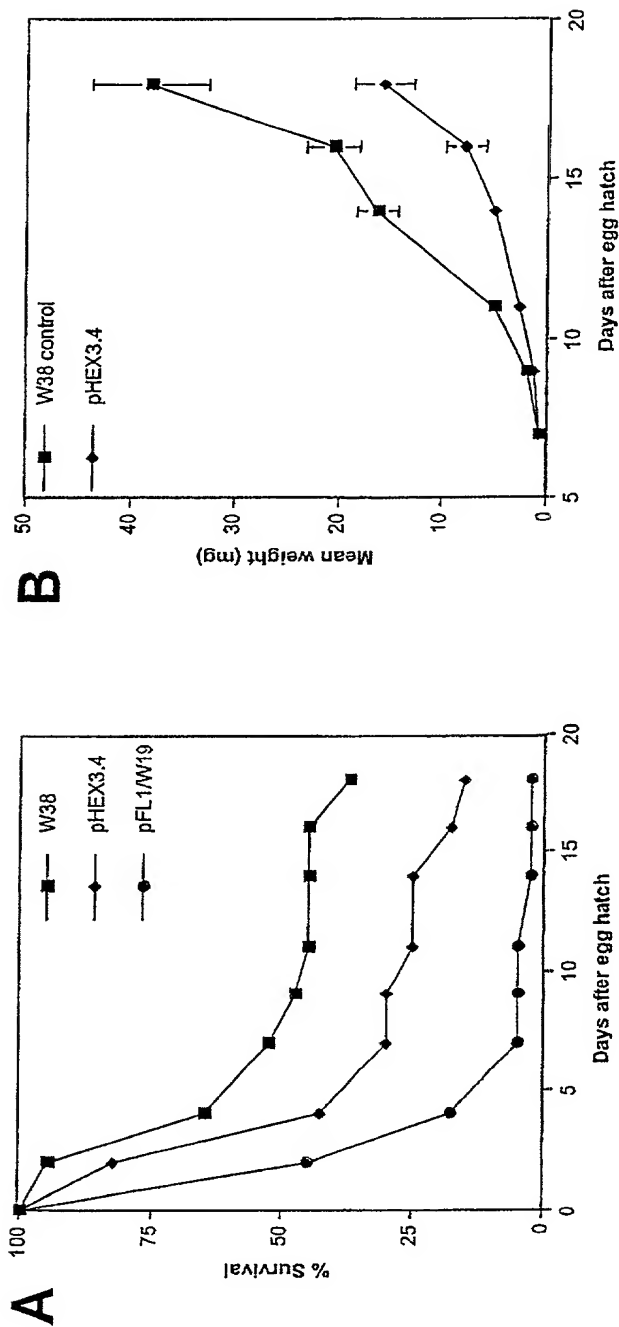


Figure 15

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H. armigera bioassay with transgenic tobacco

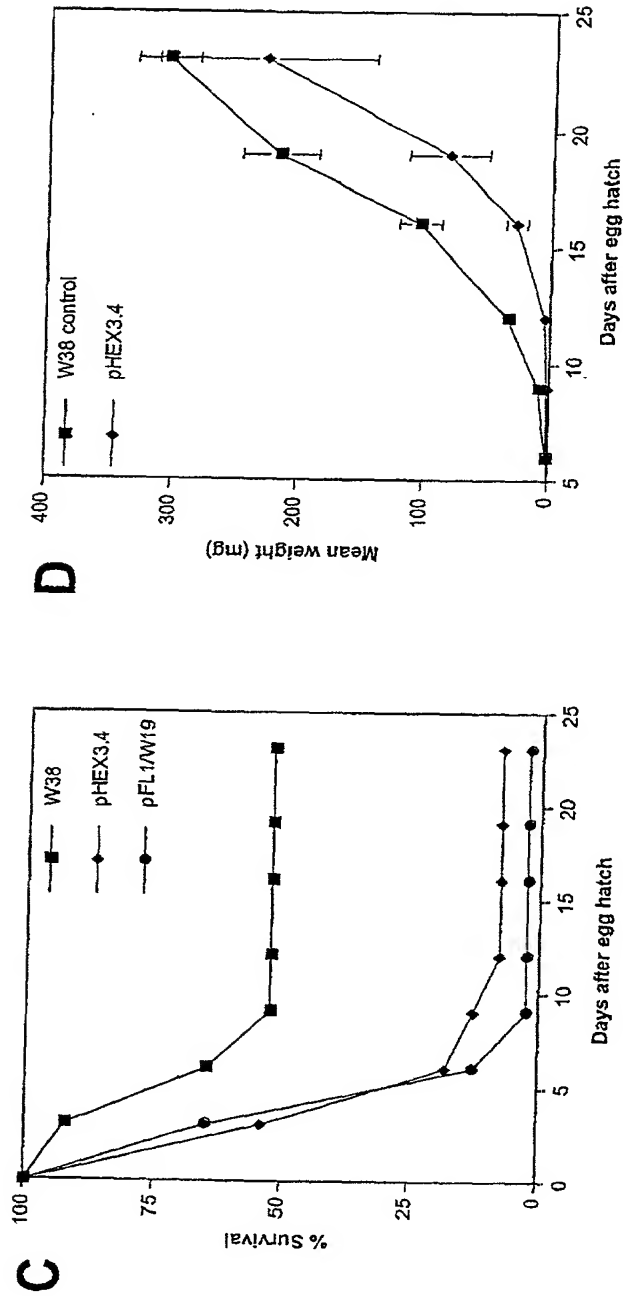


Figure 15 continued

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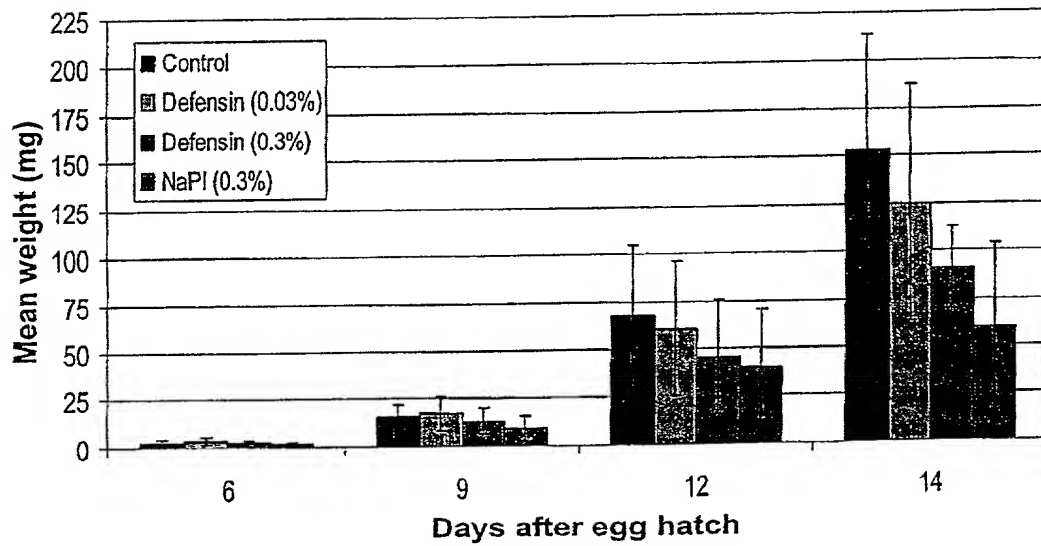


Figure 16

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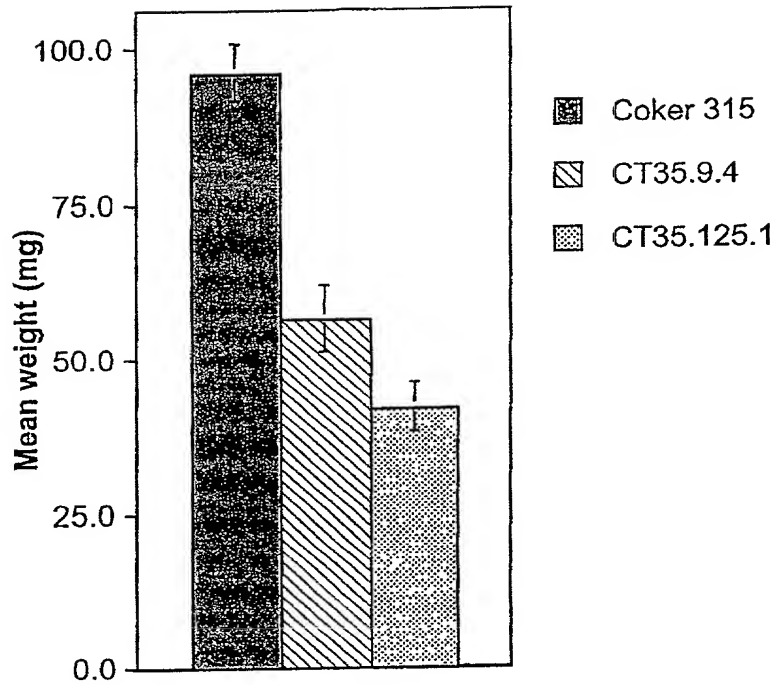


Figure 17